

CLAIMS

1. Shoulder prosthesis, including a stem provided to be inserted into a canal of the humerus shaft (20), a neck (7) and a head (23) supported by the neck, characterized therein that the neck (7) is provided with at least two holes (1, 2) for anchoring screws (1a, 2a), namely a first hole (1) for a lateral anchoring screw (1a) and a second hole (2) for an anterior anchoring screw (2a), said lateral anchoring screw being provided to attach a first tubercle laterally to the neck and said anterior anchoring screw being provided to attach a second tubercle anterior to the neck.
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2. Shoulder prosthesis according to claim 1, characterized therein, that a third hole (16) in the neck (7) is provided for a posterior anchoring screw (16a) being provided to attach a third tubercle posteriorly to the neck of the prosthesis.
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3. Shoulder prosthesis according to claim 1, characterized therein, that the top end (8) of the prosthetic stem is tapered.
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4. Shoulder prosthesis according to claim 1, characterized therein, that a lateral fin (5) and a anterior fin (4) project from the neck (7) of the prosthesis, said lateral fin having a shorter length than the anterior fin, which is angled to point at bicipital groove.
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5. System for implanting a shoulder prosthesis, characterized in a targeting arm (10) attachable to the neck (7) of the prosthesis and provided with guide means (12, 13) for guiding anchoring screws (1a, 2a) to be screwed into at least a lateral hole (1) and an anterior hole (2) in the neck, said targeting arm also being provided for holding the trial prosthesis.
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6. System according to claim 3, characterized therein, that a further hole (3) is provided in the neck (7) and able to receive an attachment part of the targeting arm (10).

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7. System according to claim 6, characterized therein, that the targeting arm (10) being stabilized by engaging a peg into a hole of anterior fin (4).

10 8. System according to claim 5, characterized therein, that a guide wire (15) is arranged for guiding a posterior screw (16) into place into a third hole (16) in the neck (7) of the prosthesis, said guide wire being inserted from anterior through the recipient hole.

15 9. System according to claim 5 including a trial stem provided with marks (9) for determining the depth of the stem in a canal of the humerus, characterized in a locking ring (14) surrounding the trial stem and resting on the end of the humeral shaft and able to lock the stem to a chosen depth.